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FIRST YEAR SURVIVAL AND HEIGHTS OF 1986 PLANTATIONS

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INTRODUCTION

The Timber Management Branch of the New Brunswick Department of Natural Resources and Energy has been assessing survival and growth in plantations on Crown Land since 1977. This report presents information on heights and first year survival of 1986 plantations. The information is presented in tabular form and interpretation of the data is left to the reader. Description of the methods used can be found in "First Year Survival and Densities of 1982 plantations", published report, ISSN 0226-9104; copies of which are available from Timber Management Branch.

TABLE 1. SURVIVAL IN PERCENT ONE YEAR AFTER PLANTING BY SPECIES AND STOCK TYPE FOR 1986 PLANTATIONS.

STOCK TYPE	UPSALQUITCH	NEPISIQUIT	LOWER MIRAMICHI	UPPER MIRAMICHI	KENT	QUEENS CHARLOTTE	FUNDY	YORK	CARLETON	RESTIGOUCHE TOBIQUE	PROVINCIAL AVERAGE
Black Spruce											
Winter Crop Paper Pot	89	93	-	69	-	-	82	-	-	97	86
Winter Crop Combicel	-	-	-	-	-	86	-	-	-	96	91
Overwintered Paper Pot	92	-	-	-	-	-	-	86	87	97	93
Overwintered Can Am	-	-	-	-	-	-	-	-	-	97	97
Jiffy Pot	-	-	-	-	-	-	-	82	-	84	83
White Spruce											
Winter Crop Paper Pot	-	-	-	-	-	90	-	-	-	99	97
Bare Root 3-0	-	-	-	57	-	54	70	-	-	-	60
Jack Pine											
Summer Crop Paper Pot		-	-	96		86		-	-	-	91
Overwintered Paper Pot	88	-		97	-	-	-	95	-	-	93
Bare Root 2-0		-	73	-	-	98		-	-	-	86
Red Pine											
Winter Crop Paper Pot	-	-	-	-	83	-	-	81	-	-	82
Larch											
Winter Crop Paper Pot		-	-	-	-	-	-	-	86	97	92
Norway Spruce											
Winter Crop Paper Pot		93	-	-	-	-	96	-	94	95	94

TABLE 2. HEIGHT AT TIME OF PLANTING AND AFTER ONE YEAR BY SPECIES AND STOCK TYPE FOR 1986 PLANTATIONS

STOCK TYPE		UPSALQUITCH	NEPISIQUIT	LOWER MIRAMICHI	UPPER MIRAMICHI	KENT	QUEENS CHARLOTTE	FUNDY	YORK	CARLETON	RESTIGOUCHE TOBIQUE	PROVINCIAL AVERAGE
Black Spruce												
Winter Crop Paper Pot	Init*	11	13	-	13	-	-	13	-	-	12	12
	YR 1+	25	26	-	26	-	-	25	-	-	17	24
Winter Crop Combicel	Init	-	-	-	-	-	16	-	-	-	17	17
	YR 1	-	-	-	-	-	20	-	-	-	30	25
Overwintered Paper Pot	Init	13	-	-	-	-	-	-	15	12	14	14
	YR 1	30	-	-	-	-	-	-	32	28	24	26
Overwintered Can Am	Init	-	-	-	-	-	-	-	-	-	15	15
	YR 1	-	-	-	-	-	-	-	-	-	28	28
Jiffy Pot	Init	-	-	-	-	-	-	-	12	-	11	12
	YR 1	-	-	-	-	-	-	-	19	-	14	16
White Spruce												
Winter Crop Paper Pot	Init	-	-	-	-	-	16	-	-	-	15	15
	YR 1	-	-	-	-	-	24	-	-	-	25	25
Bare Root 3-0	Init	-	-	-	17	-	17	20	-	-	-	18
	YR 1	-	-	-	19	-	18	21	-	-	-	20
Jack Pine												
Summer Crop Paper Pot	Init	-	-	-	8	-	7	-	-	-	-	7
	YR 1	-	-	-	14	-	14	-	-	-	-	14
Overwintered Paper Pot	Init	16	-	-	16	-	-	-	9	-	-	14
	YR 1	25	-	-	29	-	-	-	25	-	-	26
Bare Root 2-0	Init	-	-	11	-	-	15	-	-	-	-	14
	YR 1	-	-	27	-	-	25	-	-	-	-	26

TABLE 2. CONTINUED.

STOCK TYPE		UPSALQUITCH	NEPISIQUIT	LOWER MIRAMICHI	UPPER MIRAMICHI	KENT	QUEENS CHARLOTTE	FUNDY	YORK	CARLETON	RESTIGOUCHE TOBIQUE	PROVINCIAL AVERAGE
Red Pine												
Winter Crop Paper Pot	Init	-	-	-	-	6	-	-	7	-	-	7
	YR 1	-	-	-	-	8	-	-	13	-	-	11
Larch												
Winter Crop Paper Pot	Init	-	-	-	-	-	-	-	-	14	14	14
	YR 1	-	-	-	-	-	-	-	-	23	27	25
Norway Spruce												
Winter Crop Paper Pot	Init	-	12	-	-	-	-	14	-	14	12	13
	YR 1	-	12	-	-	-	-	22	-	27	14	19

*Height in cm at time of planting measured after seedlings were planted.
+Height in cm one year after planting.

TABLE 3. FIRST YEAR SURVIVAL AND HEIGHTS OF 1986 PLANTATIONS.

License	Plantation	Site Preparation	Area (ha)	Species	Stock# Type	INITIAL YEAR Height (cm)	FIRST YEAR Survival (%)	FIRST YEAR Height (cm)
Upsalquitch	101001986BP	Shark Fin Barrels	97	jP	OWPP	16	88	25
	101002486BP	C & H Plow	118	bS	WCPP	11	89	25
	101070486BP	Anchor Chains	146	bS	OWPP	13	92	30
Nepisiquit	102001586BP*	C & H Plow	32	nS	WCPP	12	93	12
	102004686BP*	C & H Plow	47	bS	WCPP	13	93	26
Lower Miramichi	203005786BP	C & H Plow	98	jP	2-0	11	73	27
Upper Miramichi	204004986BP*	C & H Plow	146	wS	3-0	17	57	19
				jP	OWPP	16	97	29
	204019686BP	C & H Plow	40	jP	SCPP	8	96	14
	204056586BP	Burn & Marden Roller	79	bS	WCPP	13	69	26
Kent	205004486BP	C & H Plow	37	rP	WCPP	6	83	8
Queens-Charlotte	206106586BP*	Anchor Chains	132	wS	3-0	17	54	18
	306004286BP	No Site Preparation	22	bS	WCCO	16	86	20
	306090486BP	Anchor Chains	57	wS	WCPP	16	90	24
	306132786BP	Shark Fin Barrels	52	jP	SCPP	7	86	14
	406015686BP	Anchor Chains	58	jP	2-0	15	98	25
Fundy	307011386BP*	Anchor Chains	40	wS	3 0	20	70	21
	307064786BP	Anchor Chains	120	bS	WCPP	13	82	25
				nS	WCPP	14	96	22
York	408006286BP	Anchor Chains	95	bS	JP	12	82	19
				rP	WCPP	7	81	13
	408006486BP	Anchor Chains	152	bS	OWPP	15	86	32
	408008786BP	Anchor Chains	105	jP	OWPP	9	95	25

TABLE 3. CONTINUED.

License	Plantation	Site Preparation	Area (ha)	Species	Stock# Type	INITIAL YEAR Height (cm)	FIRST YEAR Survival (%)	FIRST YEAR Height (cm)
Carleton	4090035868P	Anchor Chains	115	tL	WCPP	14	86	23
	4090039868P	Anchor Chains	115	bS	OWPP	12	87	28
				nS	WCPP	14	94	27
Restigouche Tobique	1100264868P	Disc Trencher	90	bS	JP	11	84	14
	1100283868P	Disc Trencher	21	wS	WCPP	15	99	25
	5100238868P*	Disc Trencher	36	bS	OWPP	11	95	11
	5100242868P*	Disc Trencher	58	bS	WCPP	12	97	17
				nS	WCPP	12	95	14
	5100251868P	C & H Plow	63	tL	WCPP	14	97	27
	5100265868P	Disc Trencher	89	bS	OWPP	13	97	27
	5100275868P	No-Site Preparation	55	bS	OWCA	17	97	30
	5100276868P	No-Site Preparation	42	bS	OWPP	18	98	30
	5100278868P	C & H Plow	15	bS	OWPP	16	96	26
	5100279868P	C & H Plow	11	bS	WCCO	17	96	30
	5105029868P	Bracks	16	bS	OWCA	12	97	26

OWCA - Overwintered Can Am
OWPP Overwintered Paper Pot
WCPP Winter Crop Paper Pot
SCPP Summer Crop Paper Pot
2-0 - Bare Root 2-0
3-0 - Bare Root 3-0
JP - Jiffy Pot
WCCO - Winter Crop Combicel

* Disease and browsing was noted on a number of seedlings